

Fig. 1

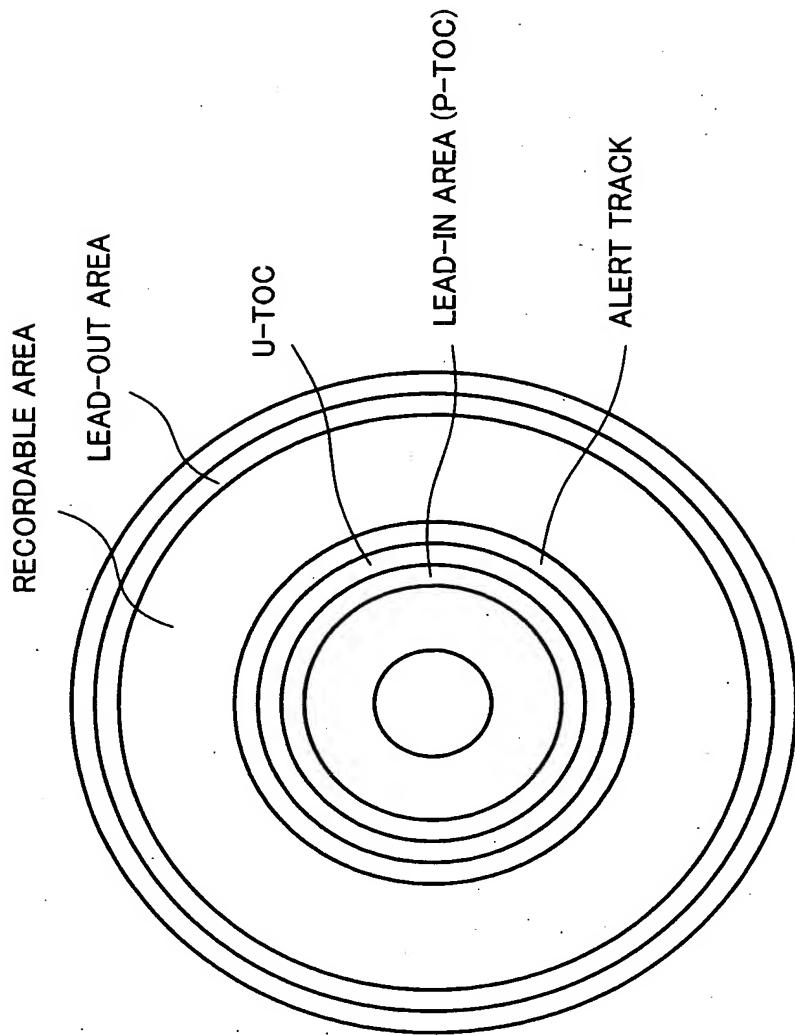
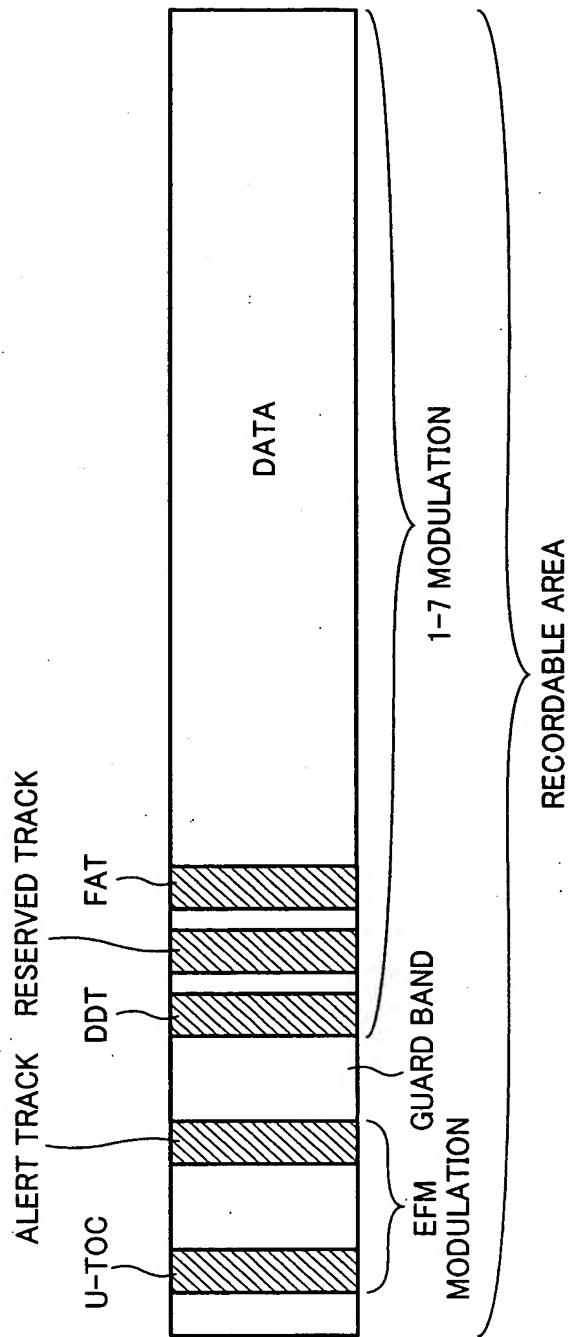


Fig. 2



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Fig. 3A

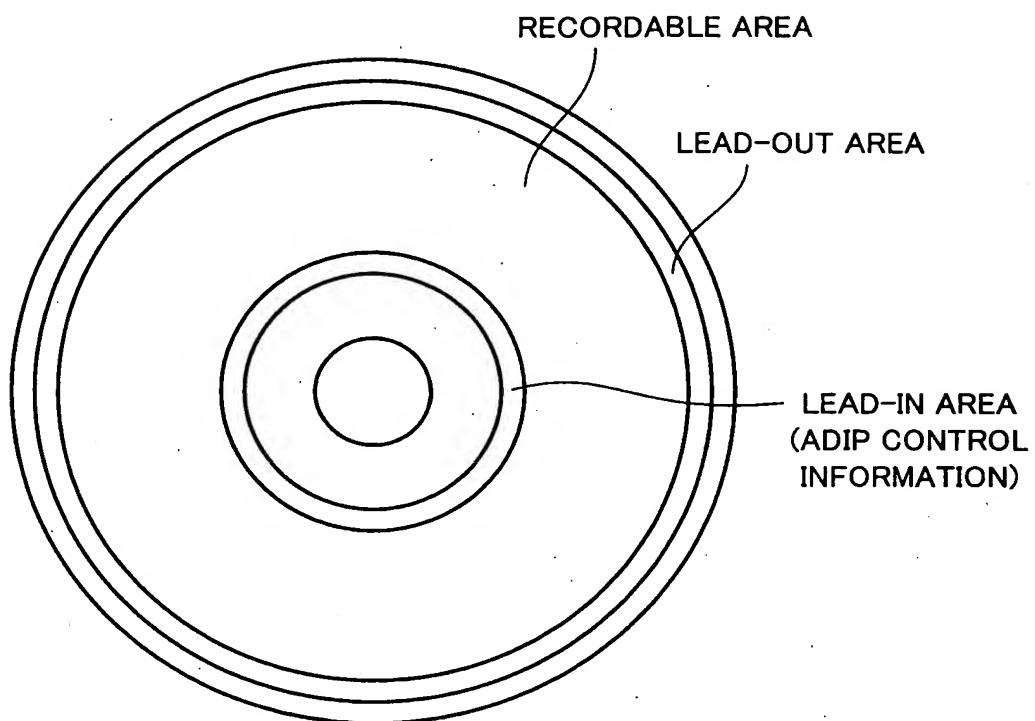


Fig. 3B

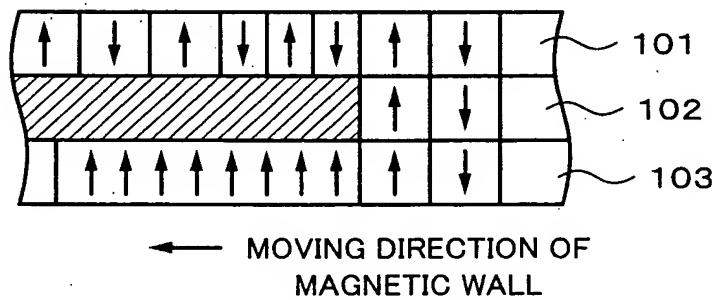


Fig. 4

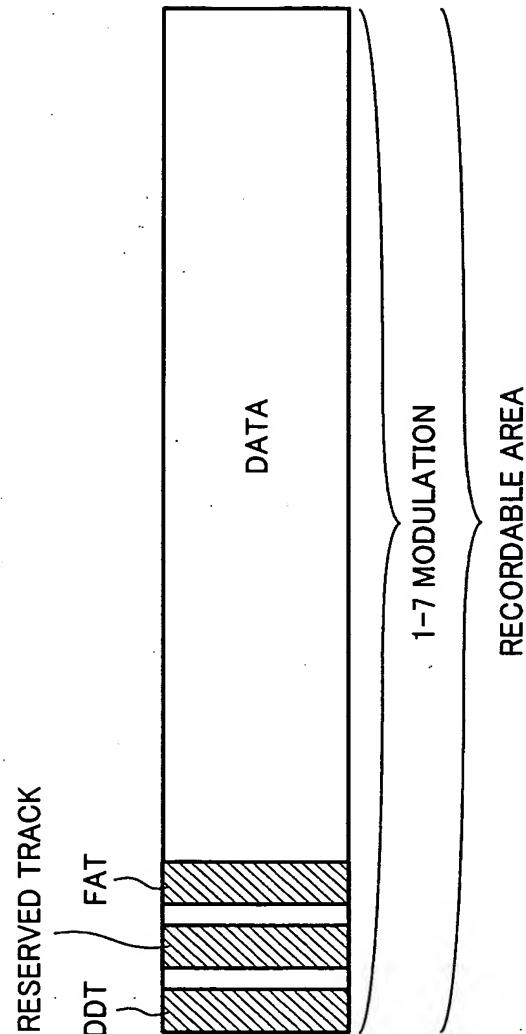


Fig. 5

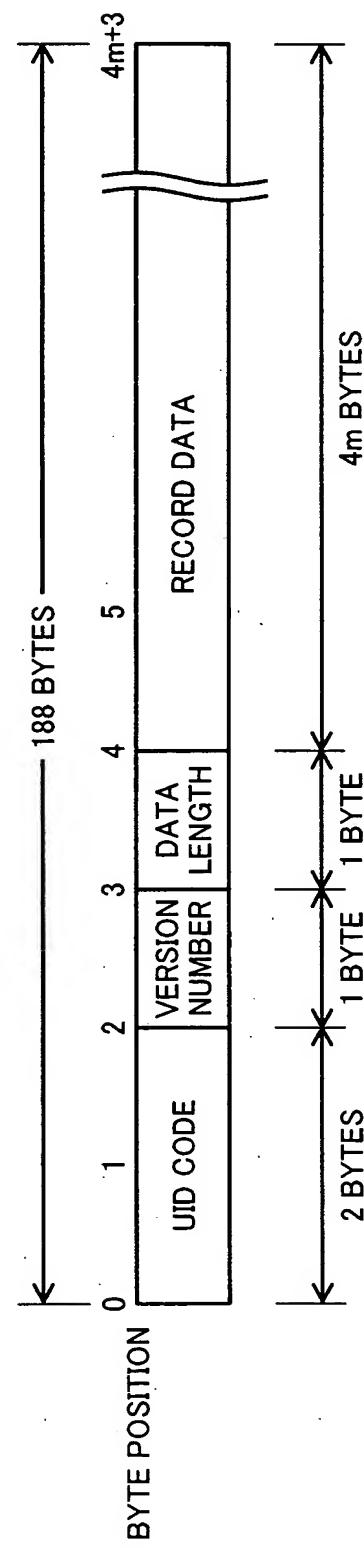
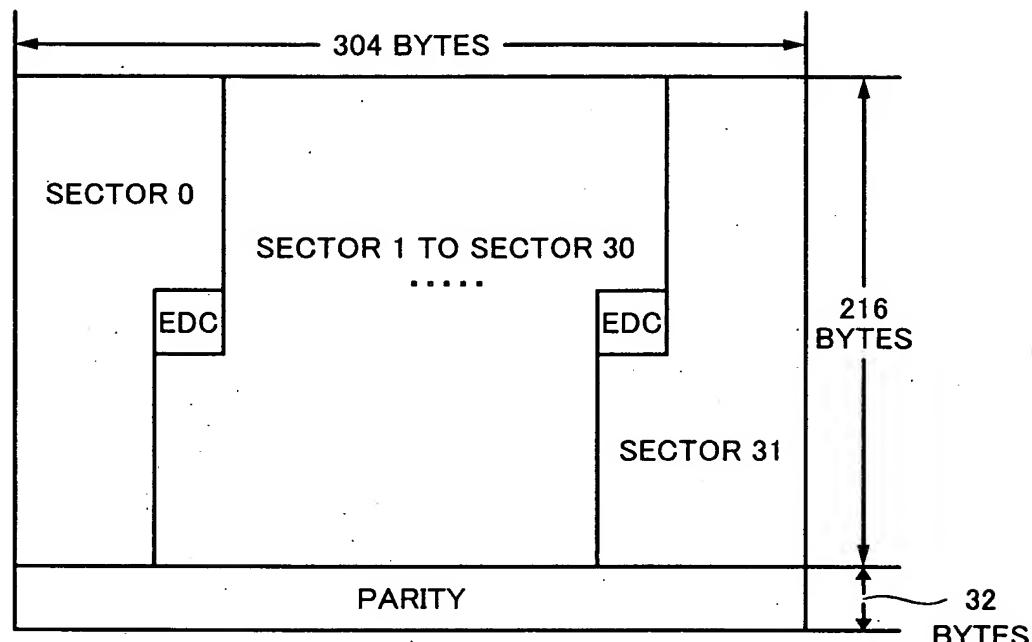


Fig. 6



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Fig. 7

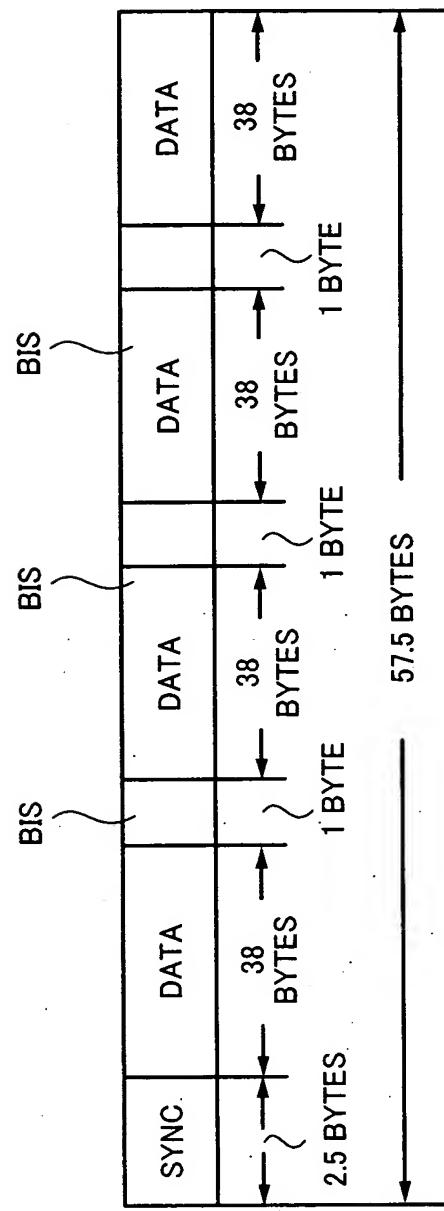


Fig. 8

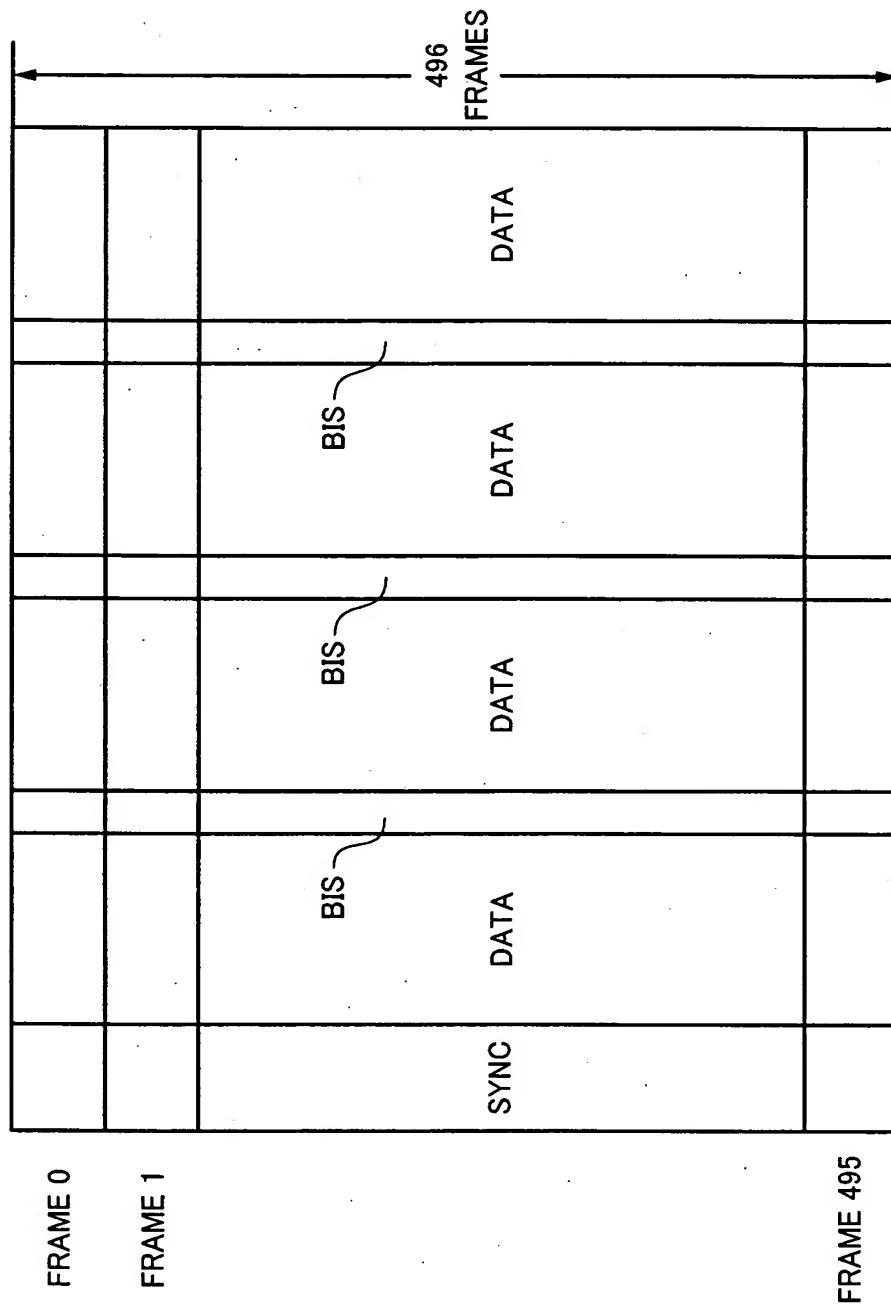
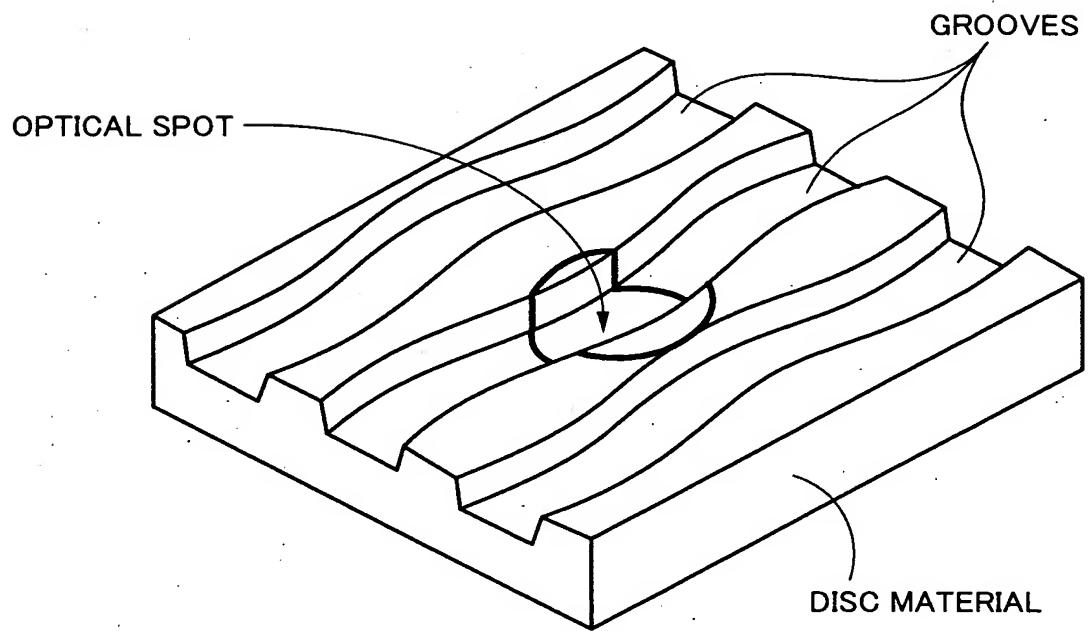


Fig. 9



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Fig. 10

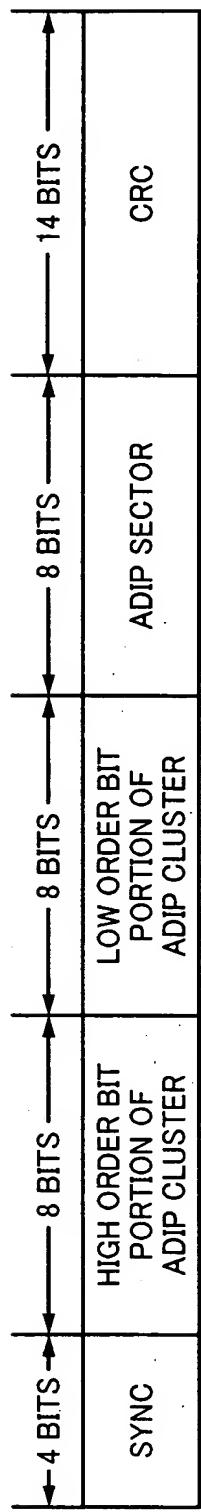


Fig. 11

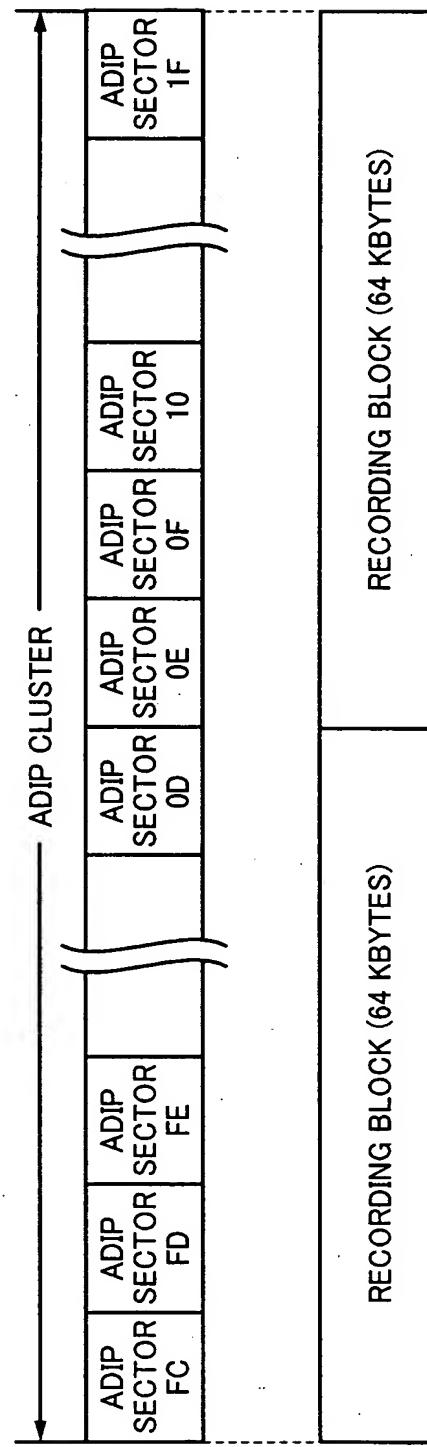


Fig. 12

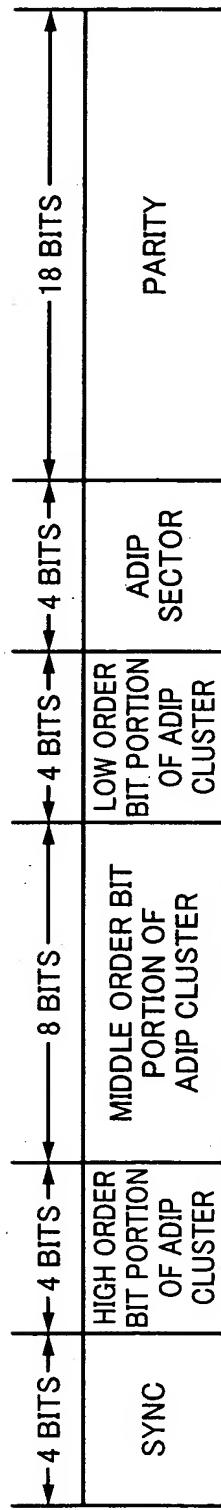
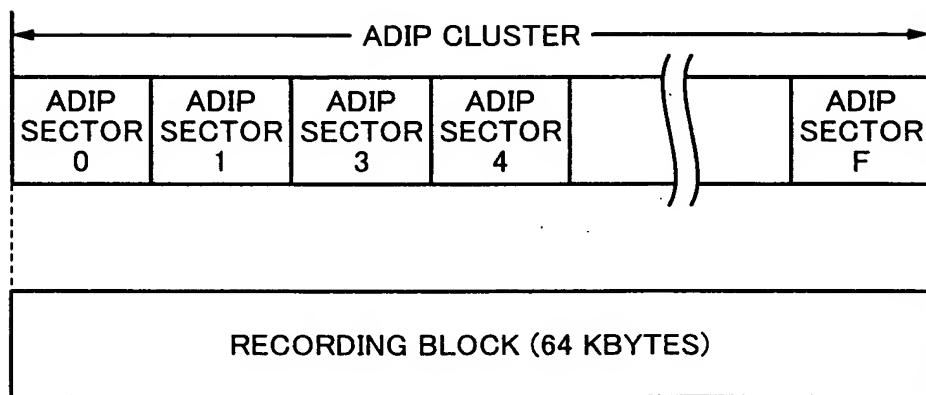
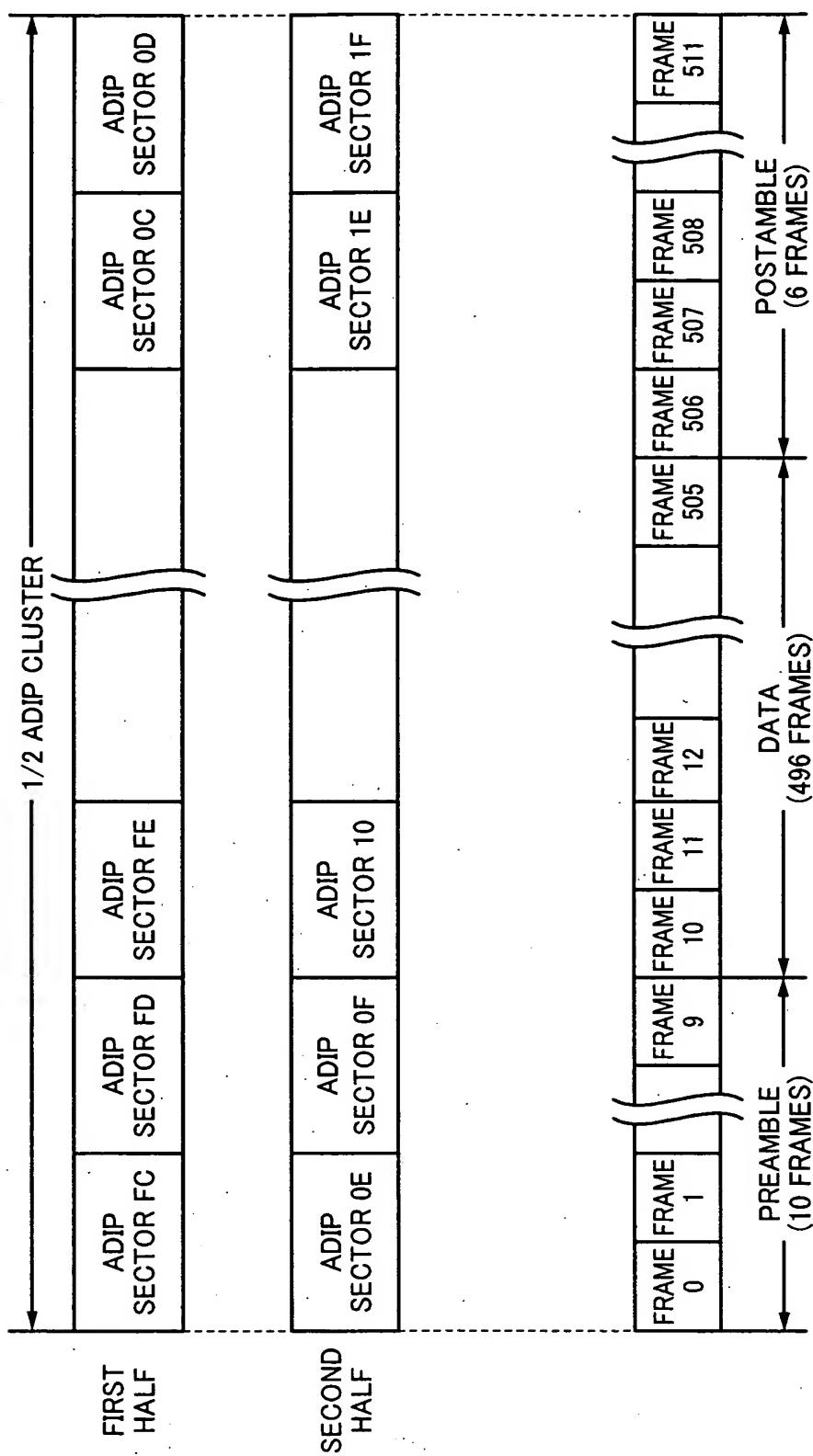


Fig. 13



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Fig. 14



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Fig. 15

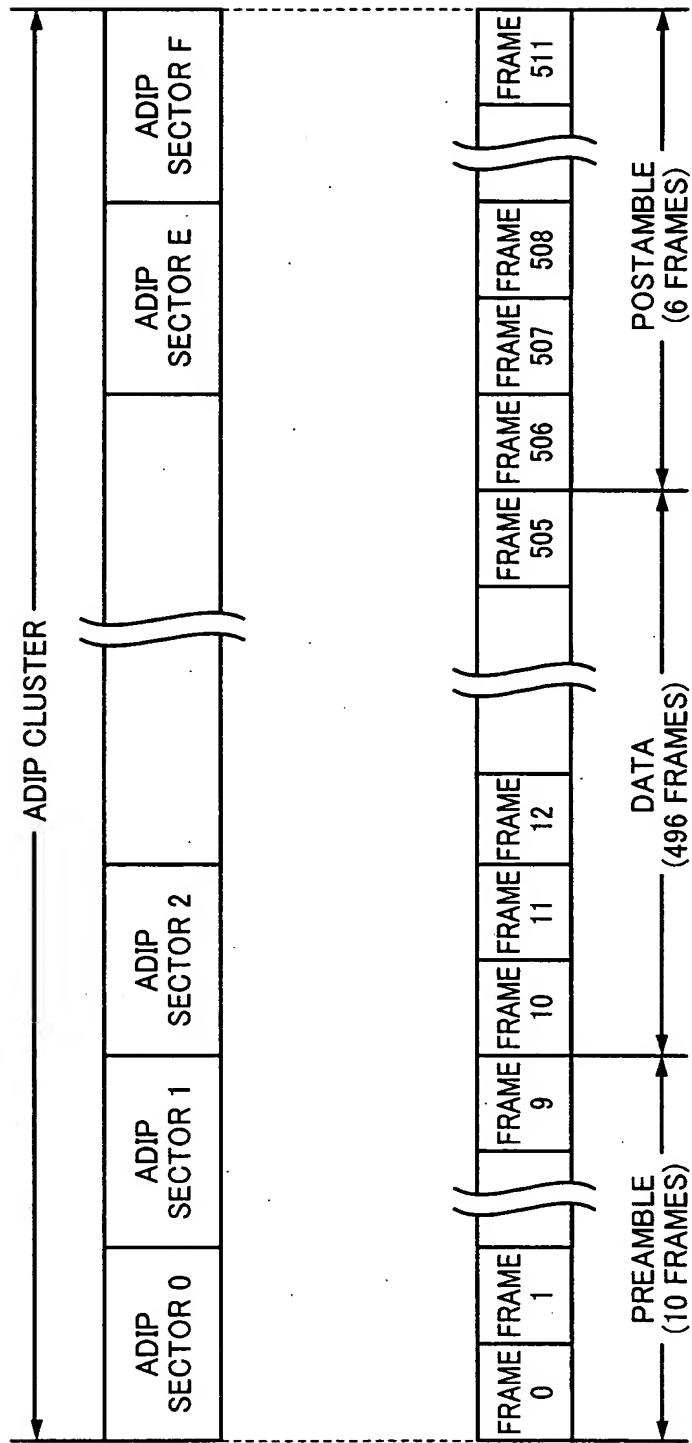


Fig. 16

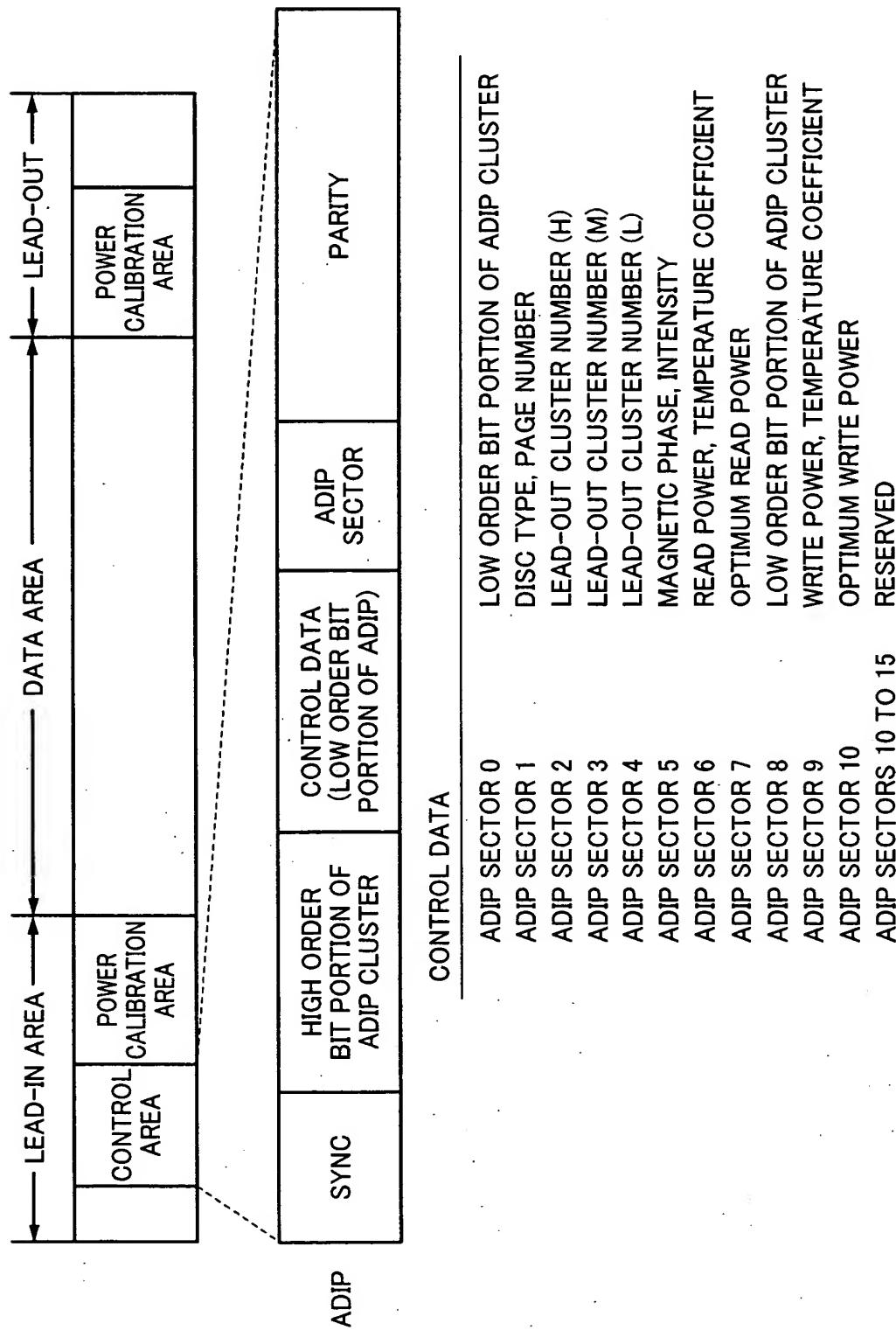
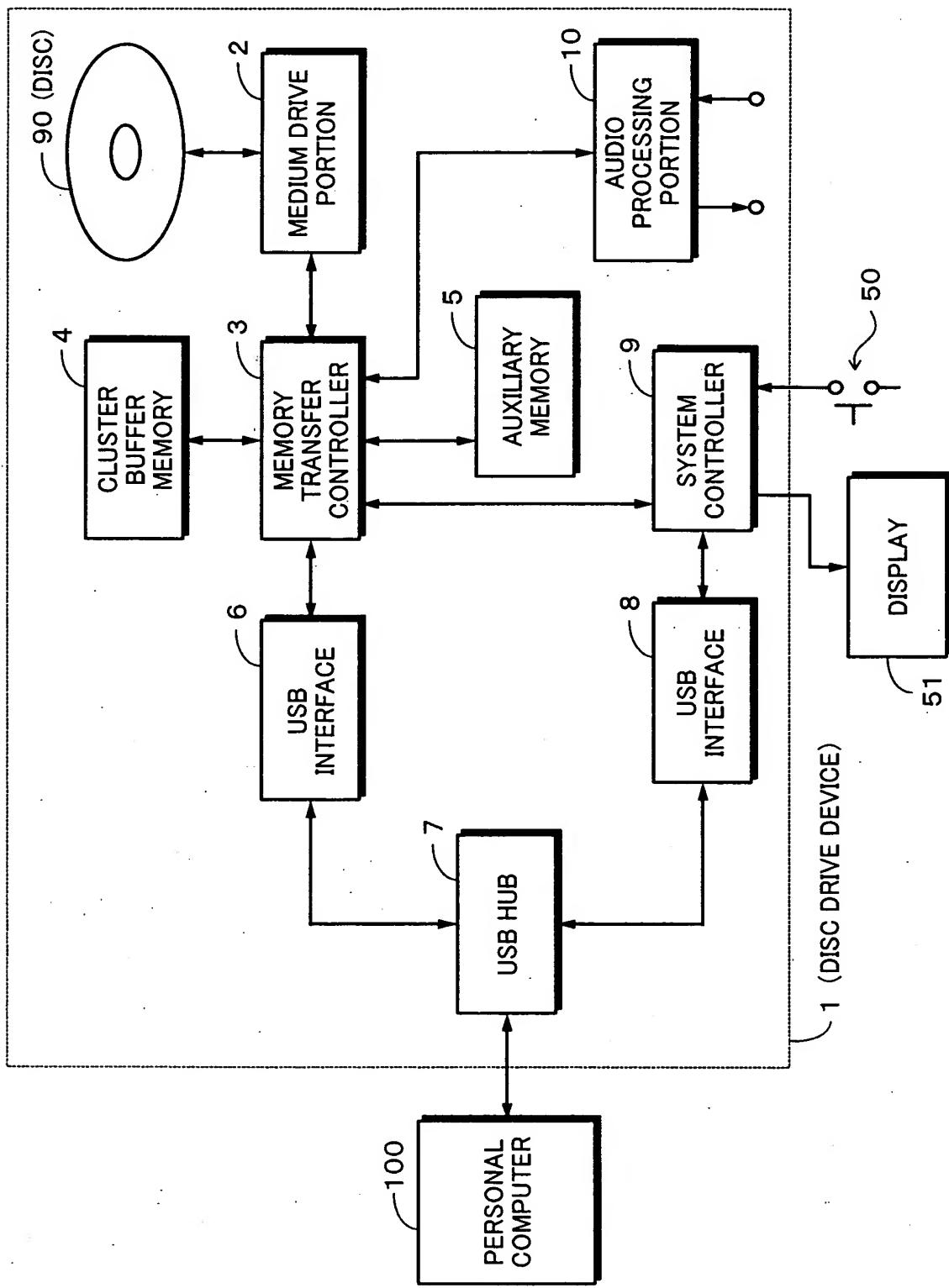


Fig. 17



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Fig. 18

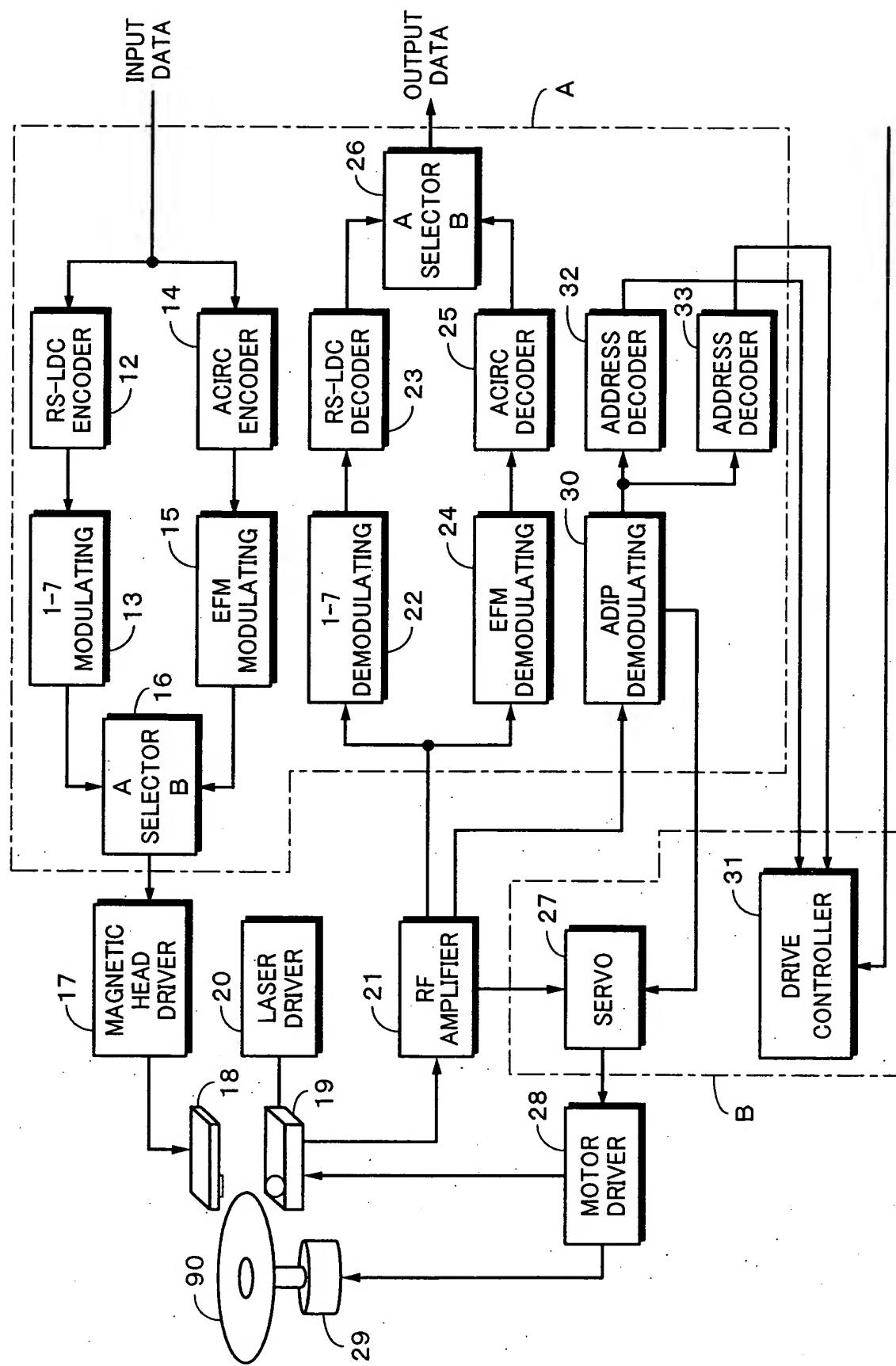
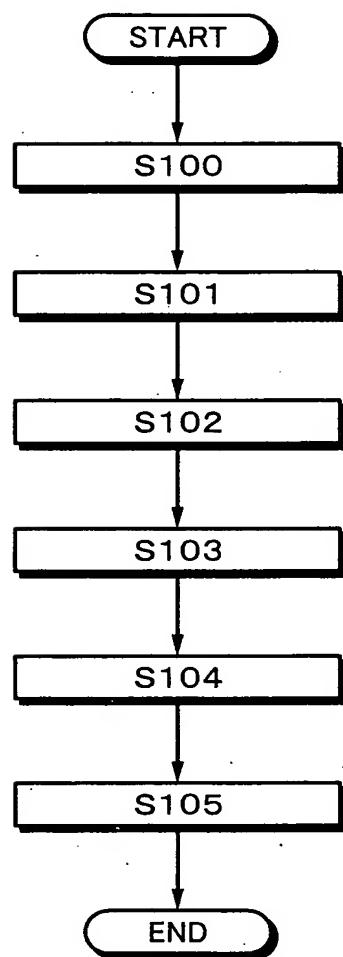


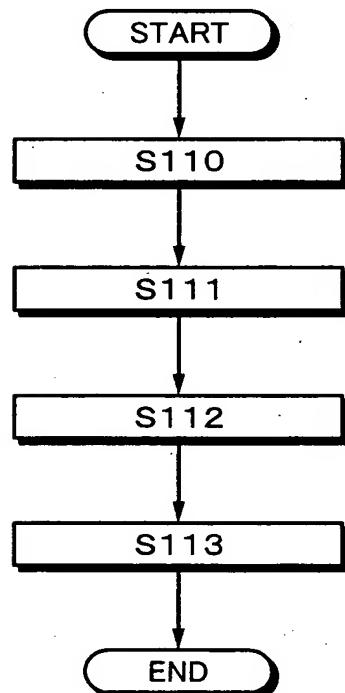
Fig. 19



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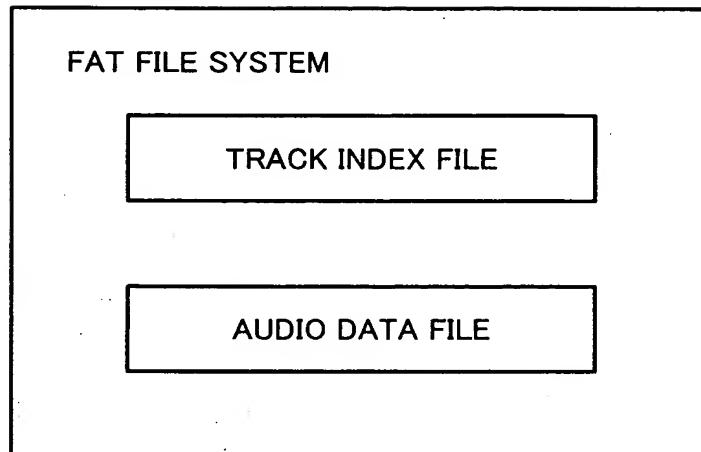
OBLON ET AL (703) 413-3000
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Fig. 20



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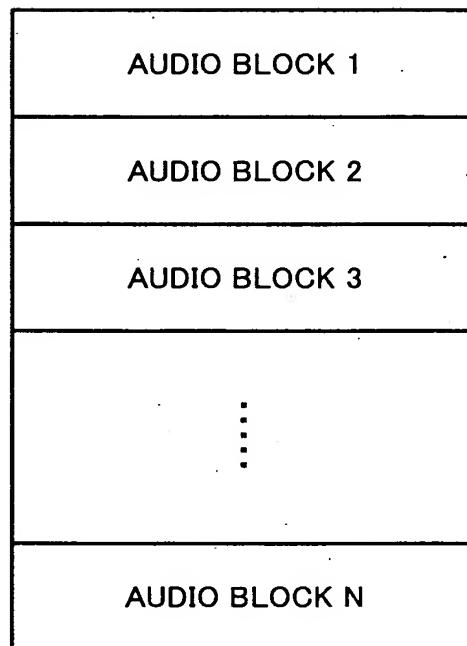
Fig. 21



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Fig. 22



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Fig. 23

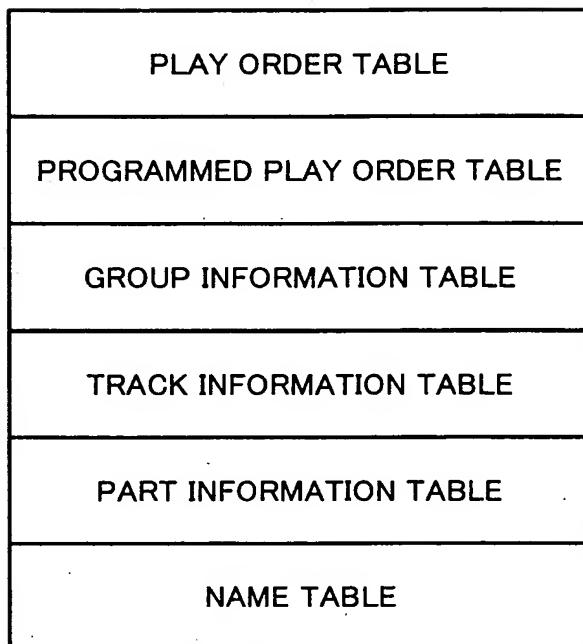
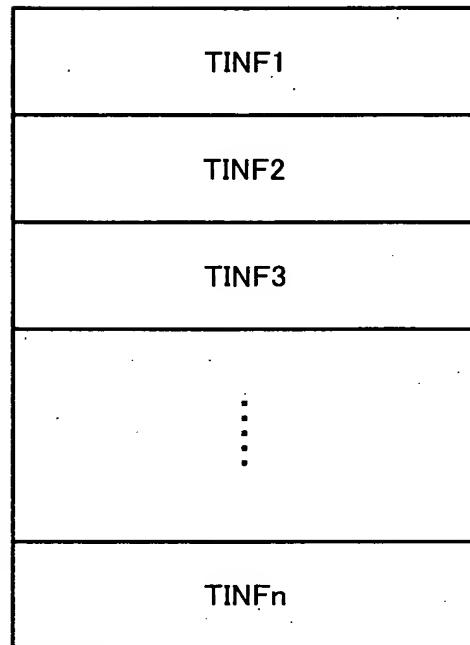
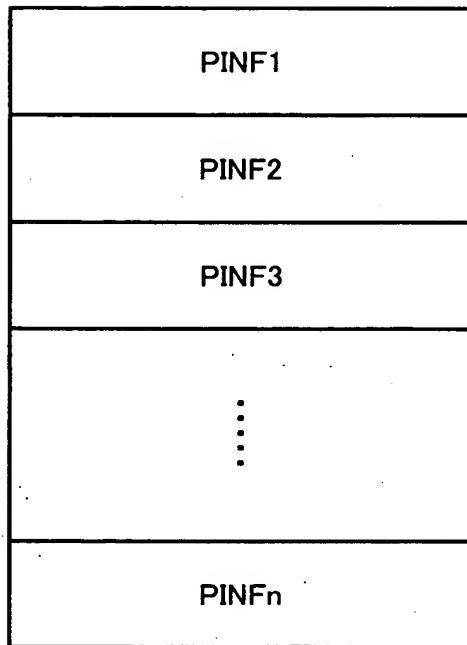


Fig. 24



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Fig. 25



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Fig. 26A

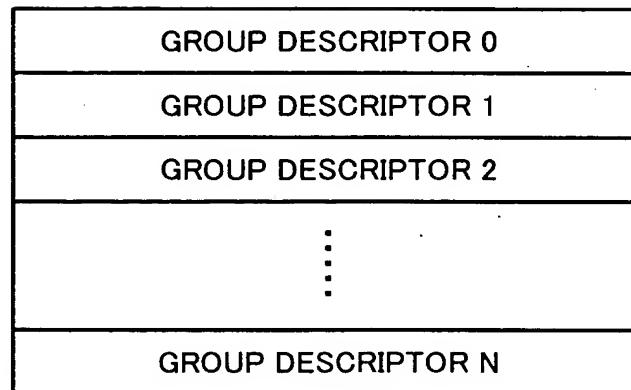


Fig. 26B

START TRACK NUMBER	END TRACK NUMBER	GROUP NAME	FLAG
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Fig. 27A

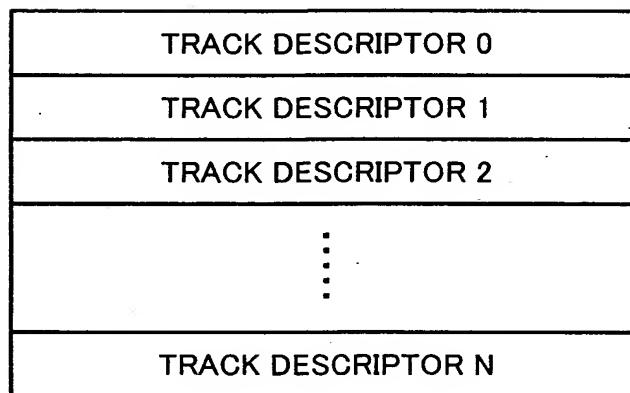


Fig. 27B

ENCODING SYSTEM		
COPYRIGHT MANAGEMENT INFORMATION	KEY INFORMATION	
PART NUMBER	ARTIST NAME	TITLE
ORIGINAL SONG ORDER	RECORD DURATION	

Fig. 28A

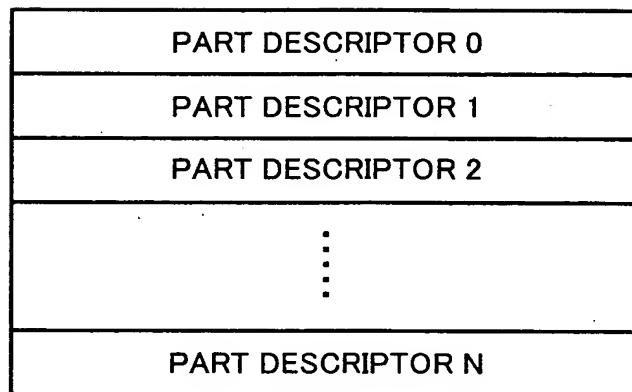


Fig. 28B

PART START ADDRESS	PART END ADDRESS	LINK
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Fig. 29A

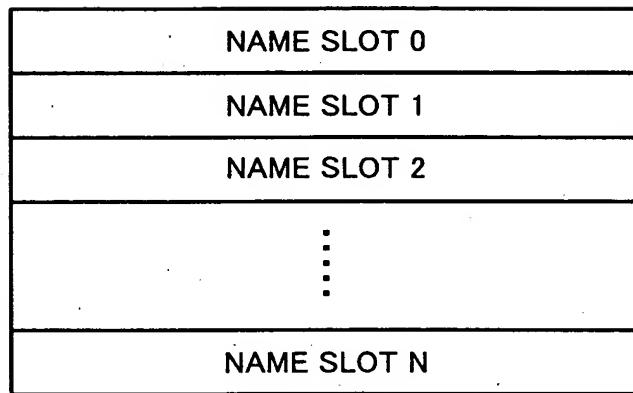
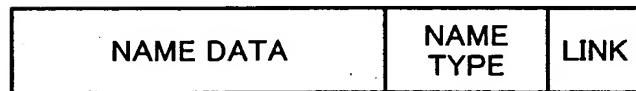
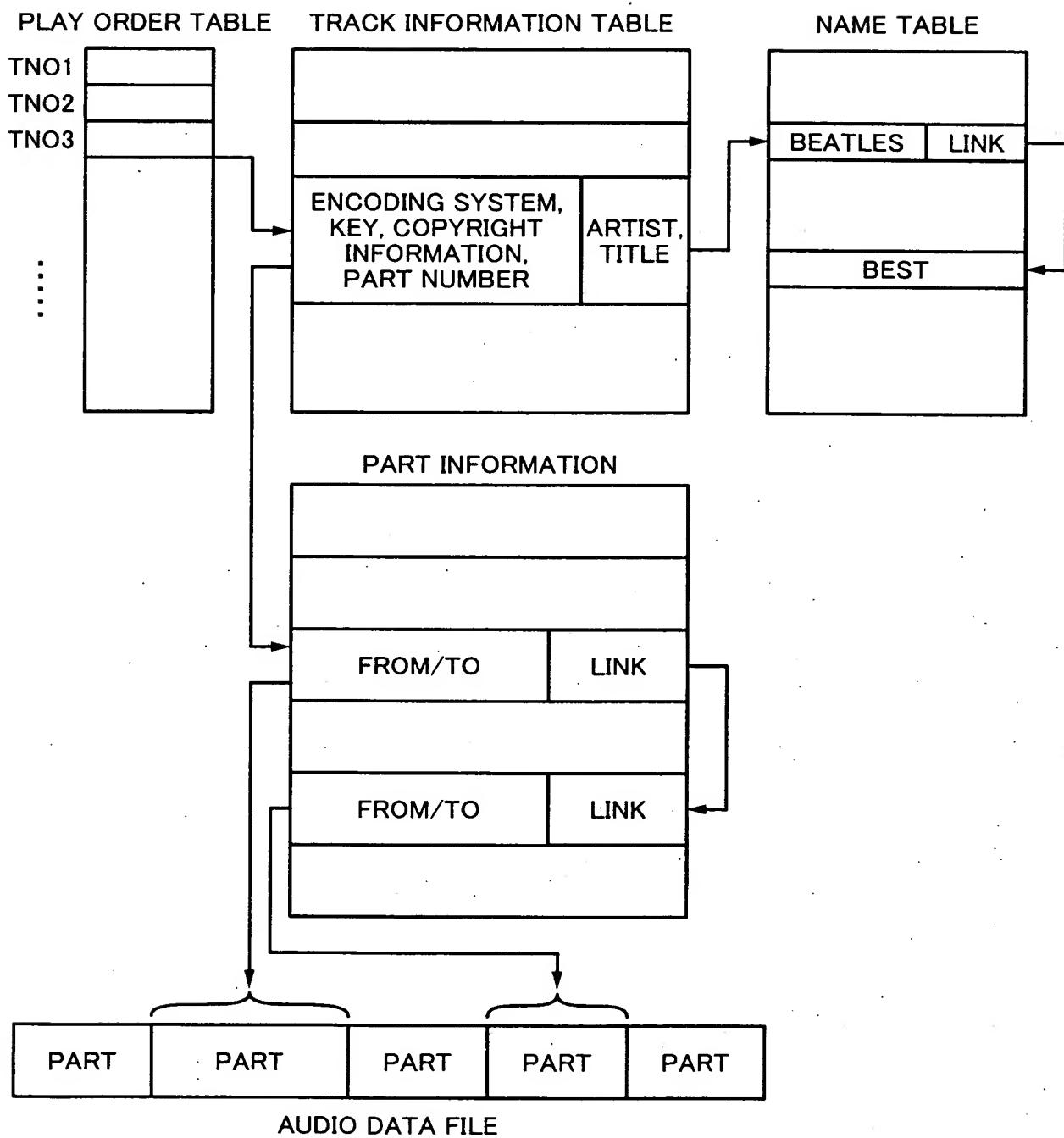


Fig. 29B



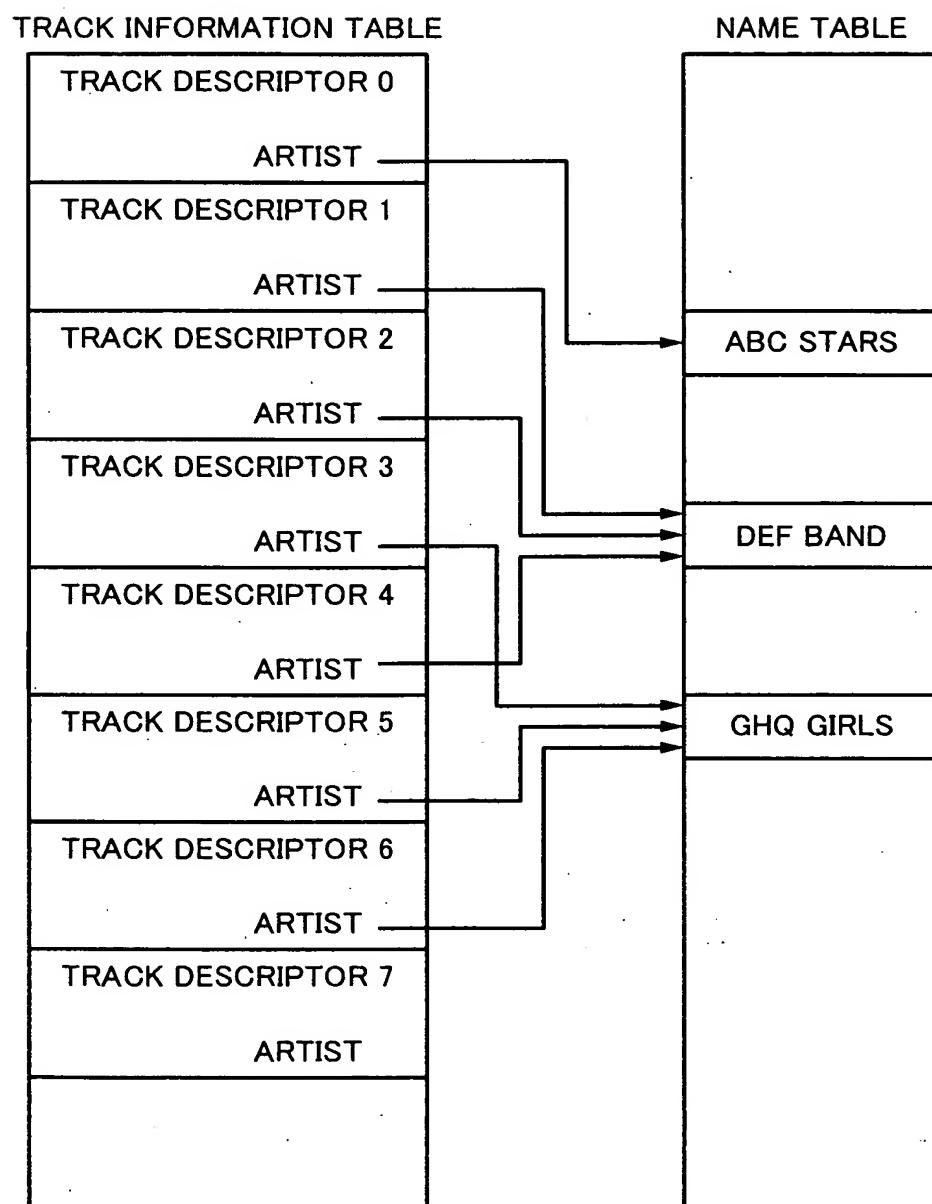
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Fig. 30



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Fig. 31



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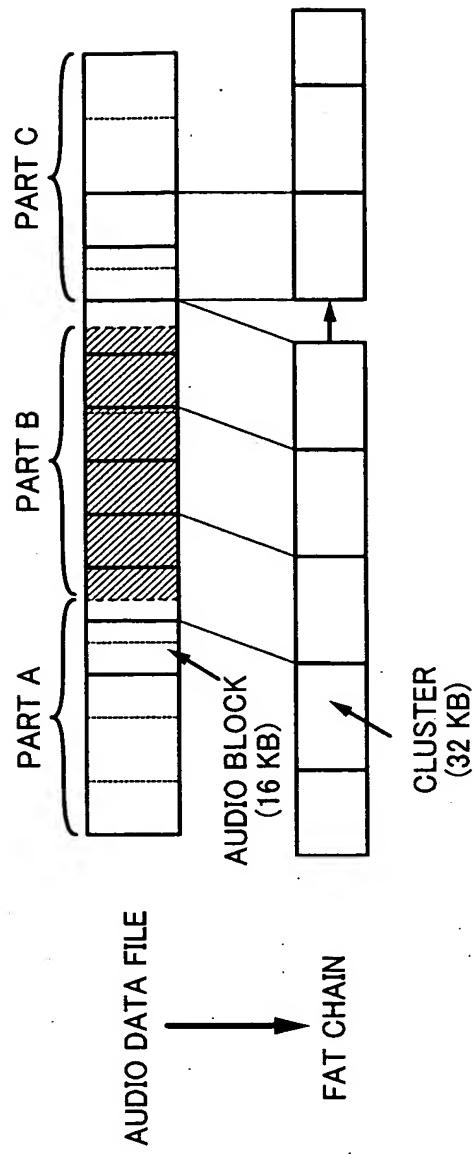


Fig. 32A

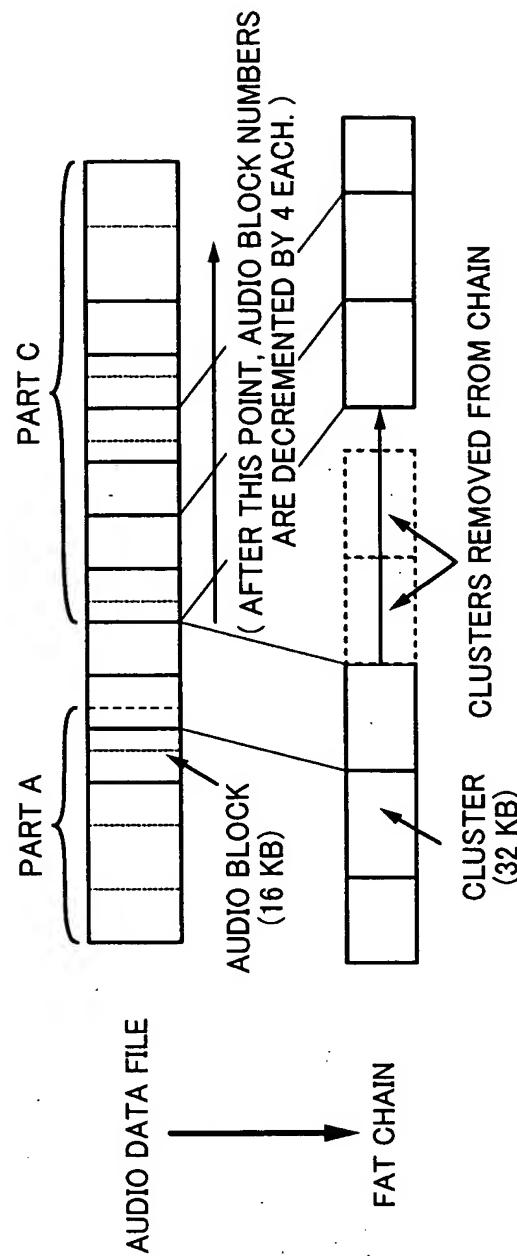


Fig. 32B

Fig. 33

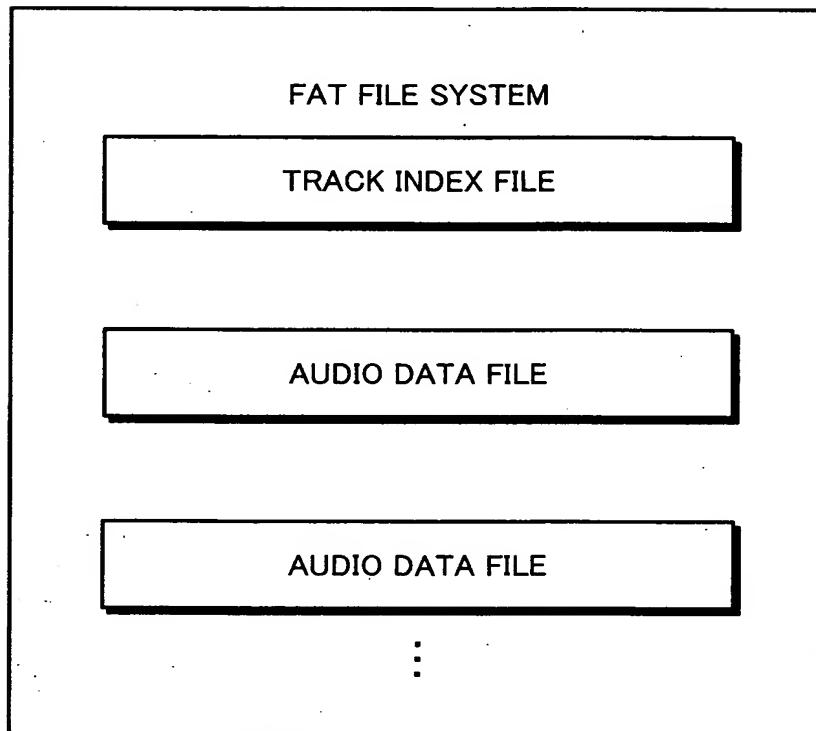
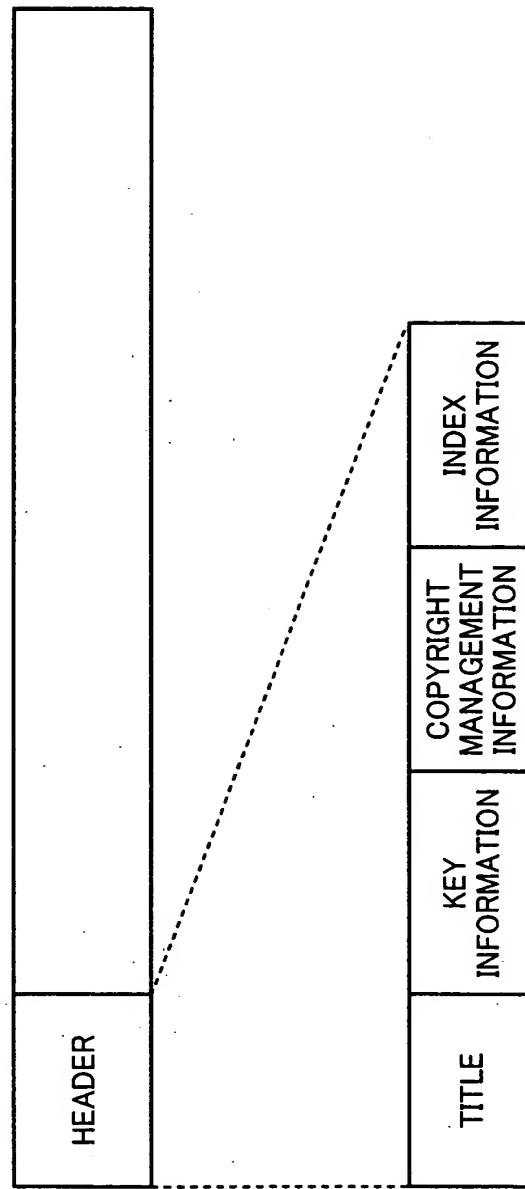
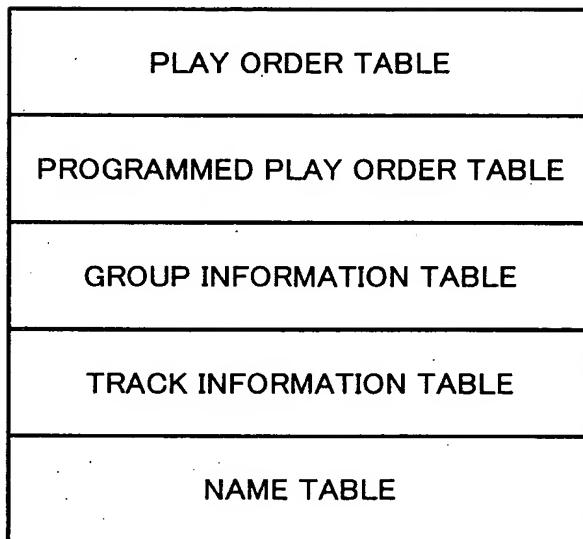


Fig. 34



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Fig. 35



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Fig. 36

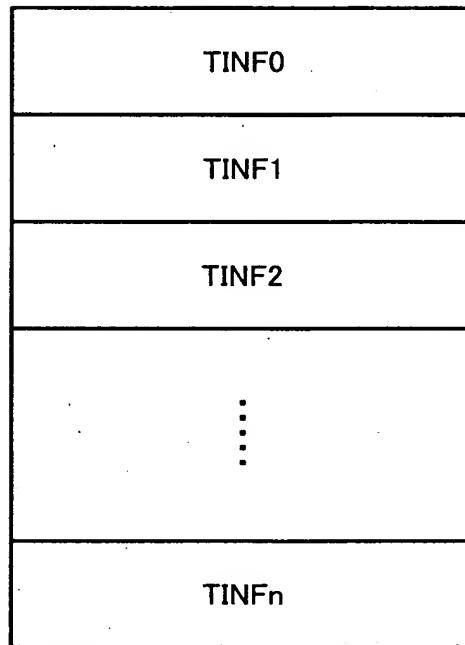


Fig. 37

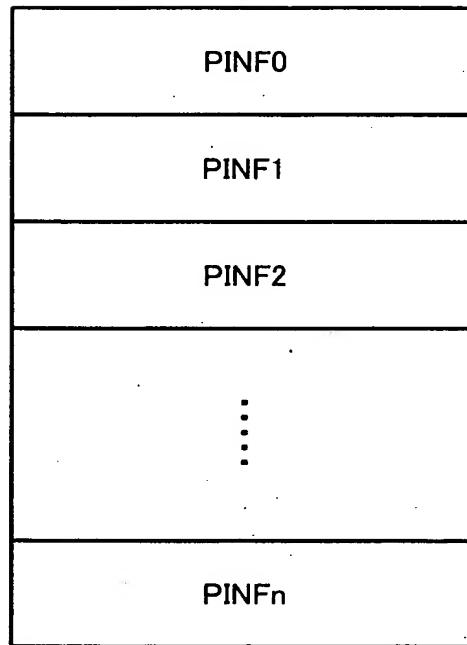


Fig. 38A

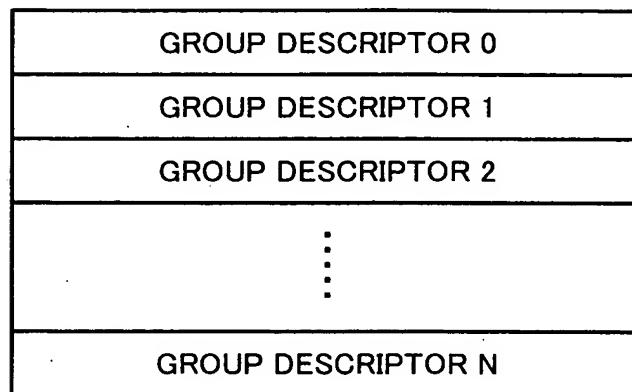


Fig. 38B

START TRACK NUMBER	END TRACK NUMBER	NAME POINTER	FLAG
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Fig. 39A

TRACK DESCRIPTOR 0
TRACK DESCRIPTOR 1
TRACK DESCRIPTOR 2
TRACK DESCRIPTOR N

Fig. 39B

ENCODING SYSTEM			
AUDIO FILE	INDEX	ARTIST NAME	TITLE
ORIGINAL SONG ORDER		RECORD DURATION	

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Fig. 40A

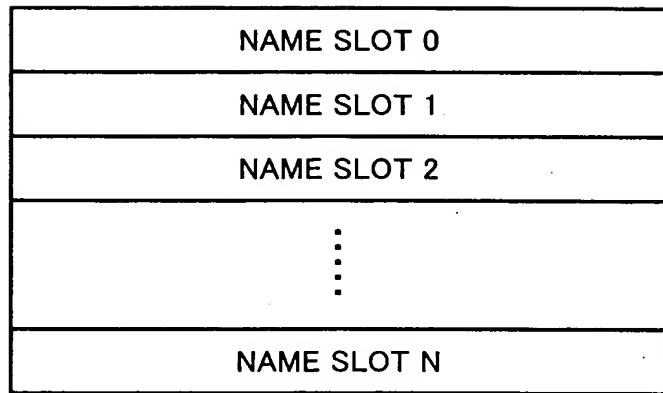


Fig. 40B

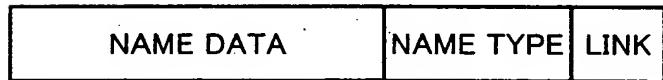
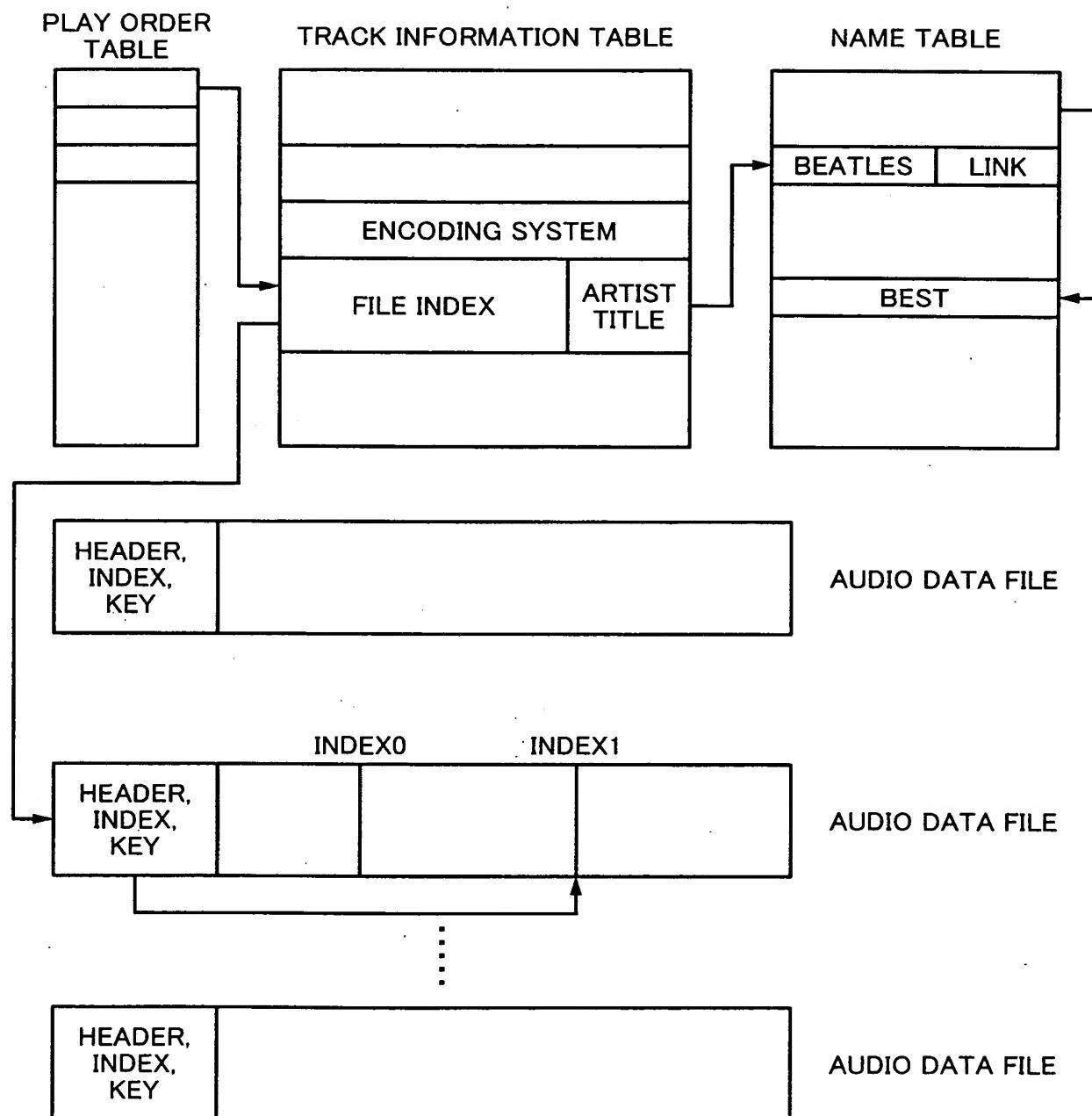


Fig. 41



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Fig. 42

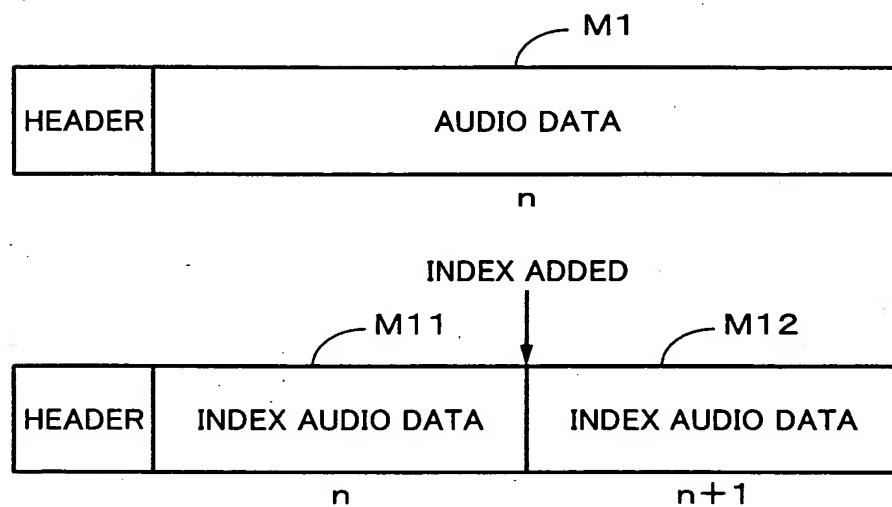


Fig. 43

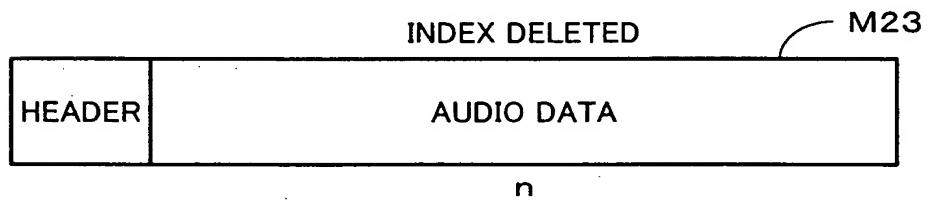
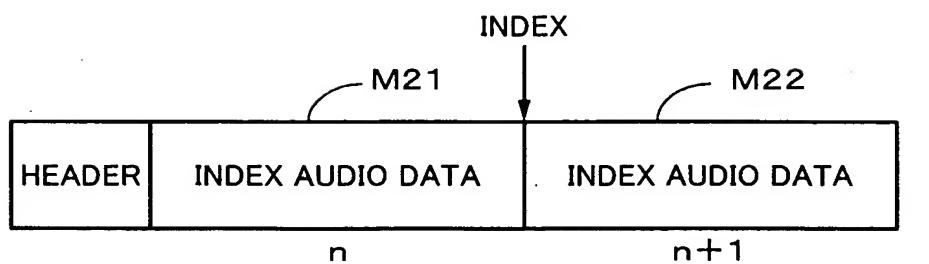
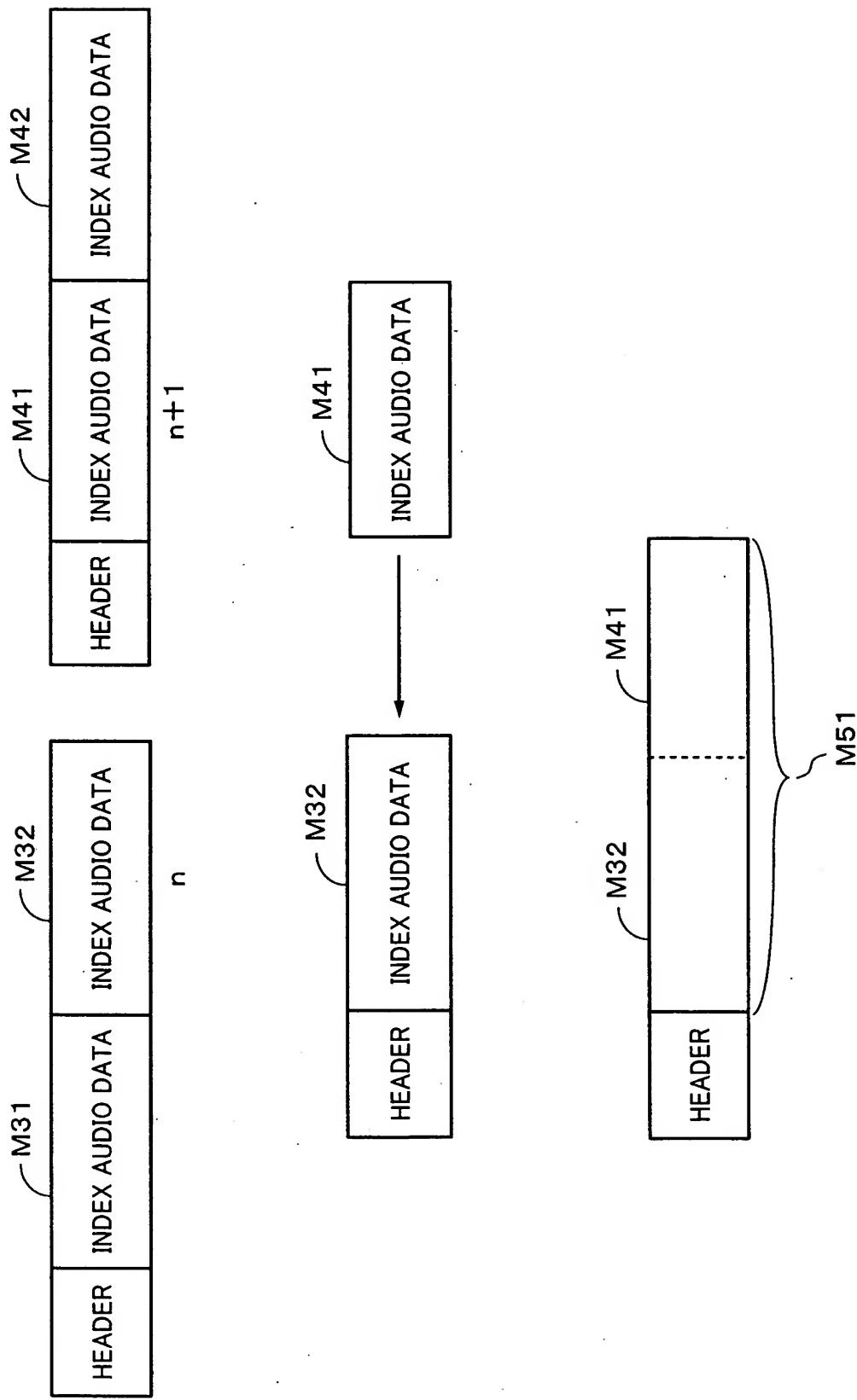


Fig. 44



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Fig. 45A

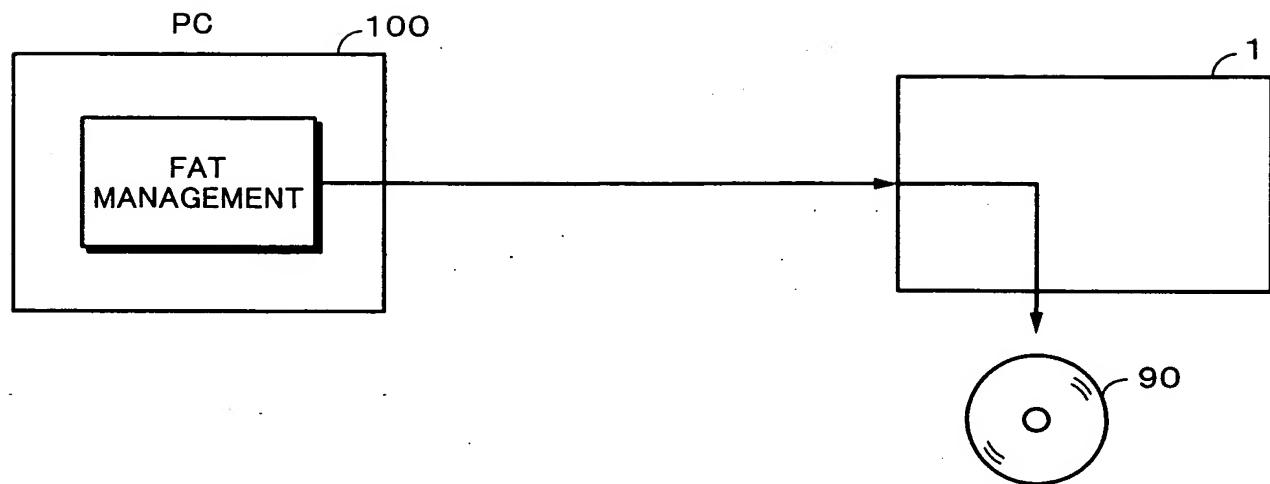


Fig. 45B

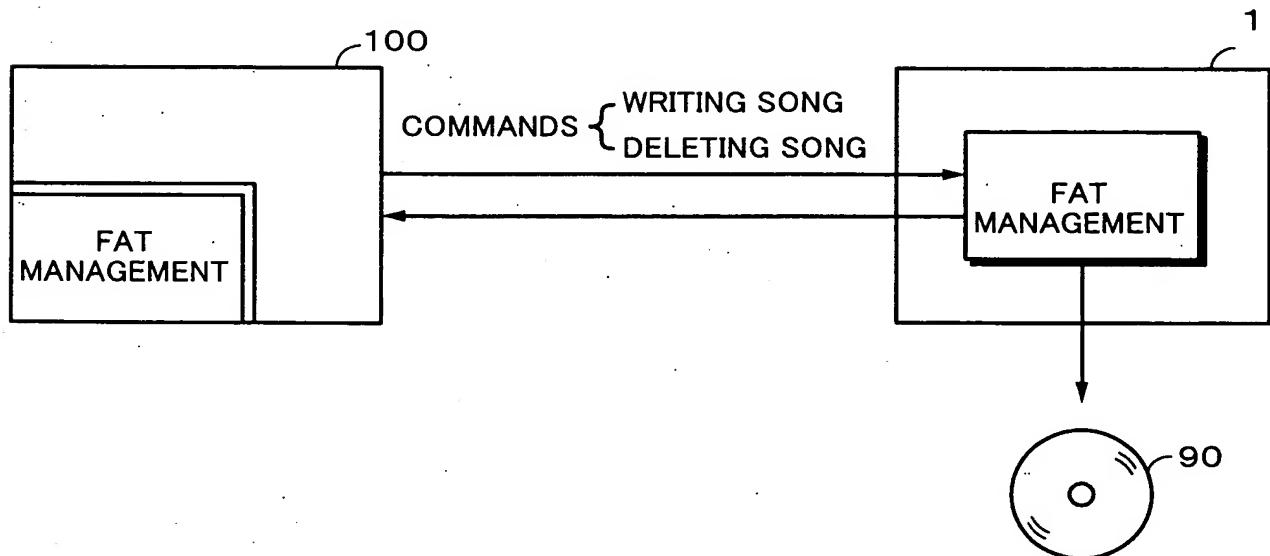
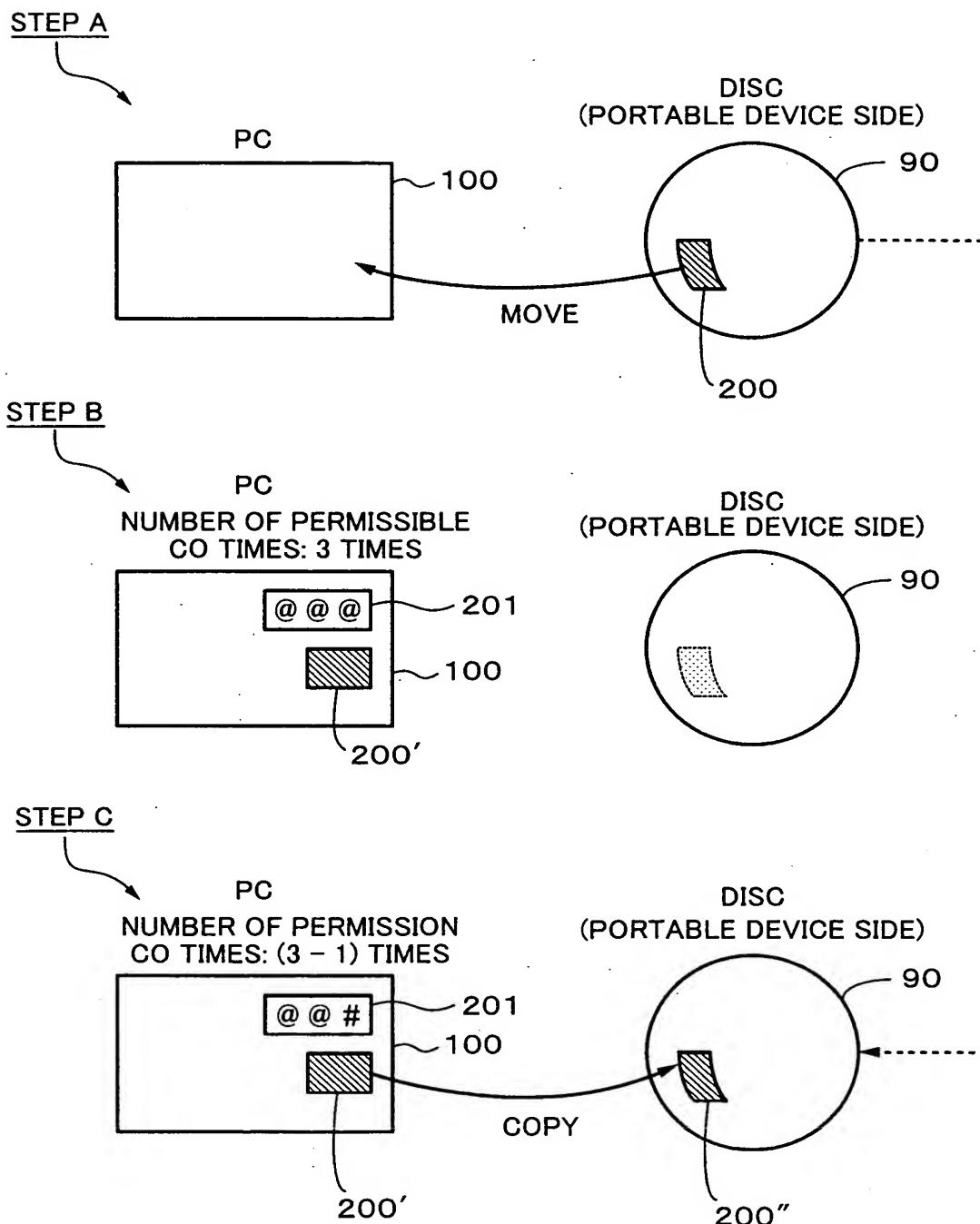


Fig. 46



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Fig. 47

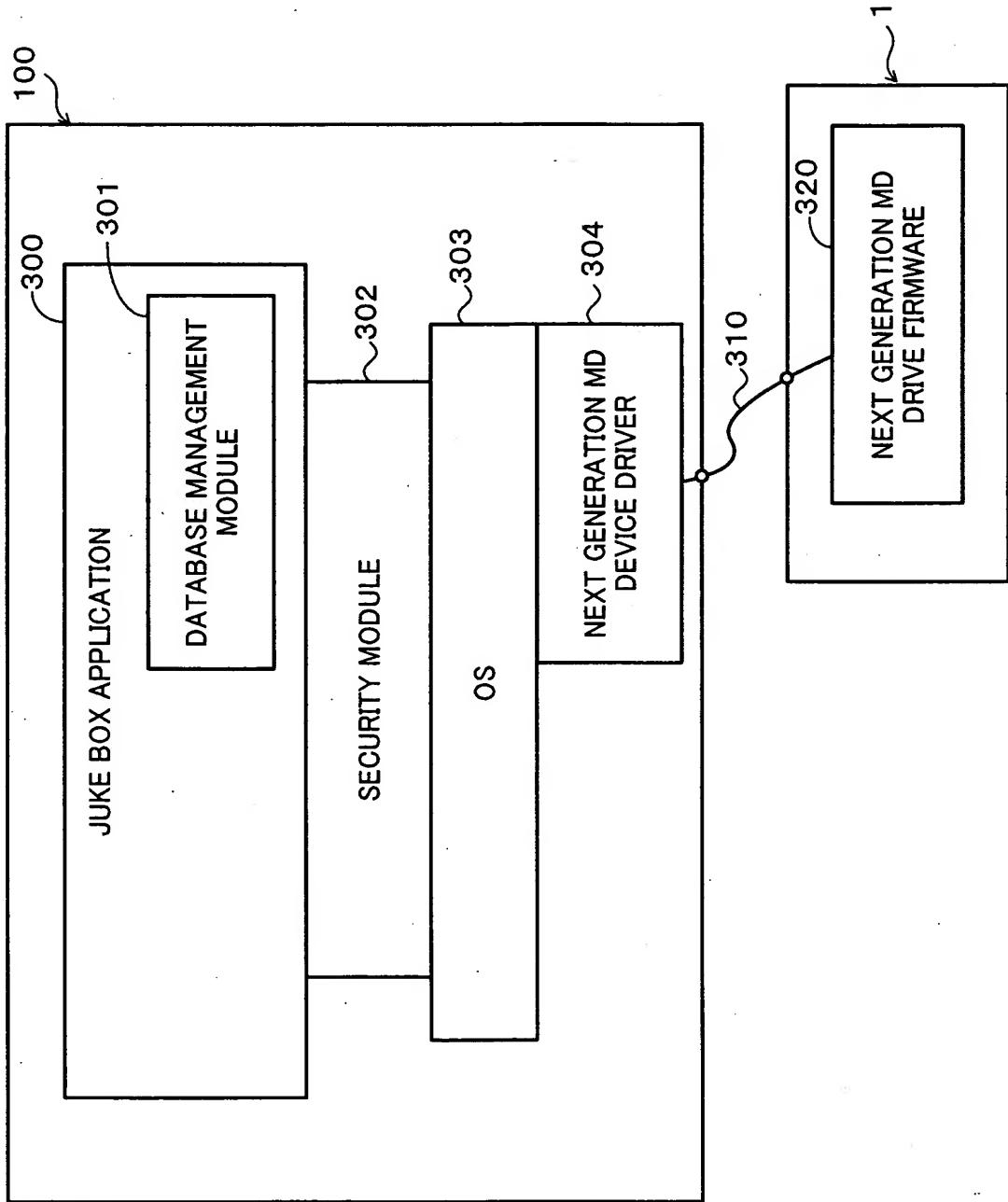


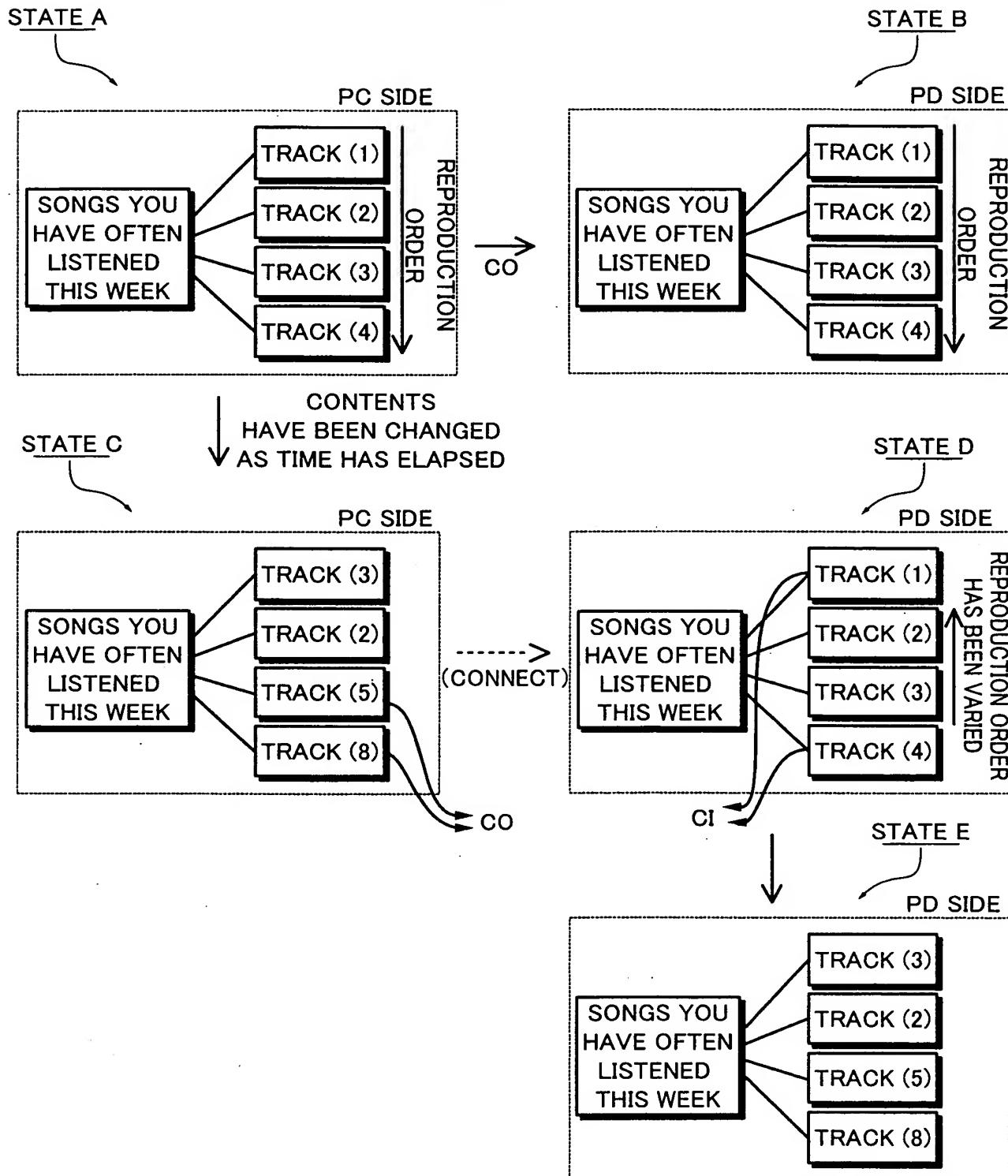
Fig. 48A

GROUP NAME	DISC ID	DISC CAPACITY	DYNAMIC FLAG	CHANGE FLAG
SONGS YOU HAVE OFTEN LISTENED THIS WEEK	CCCCC	GGGGG	1	1
AA BEST	DDDDD	HHHHH	0	0
NEW SONGS	EEEEEE	JJJJJ	1	0
BB SELECT	FFFFF	KKKKK	0	1

Fig. 48B

GROUP NAME	CONTENT ID	REPRODUCTION ORDER	NUMBER OF PERMISSIBLE CO TIMES	NUMBER OF REPRODUCTION TIMES
SONGS YOU HAVE OFTEN LISTENED THIS WEEK	LLLLL	4	2	2
	NNNNN	2	2	6
	OPOPOP	1	2	11
	QQQQQQ	5	1	0
	RRRRR	3	2	3

Fig. 49



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Fig. 50

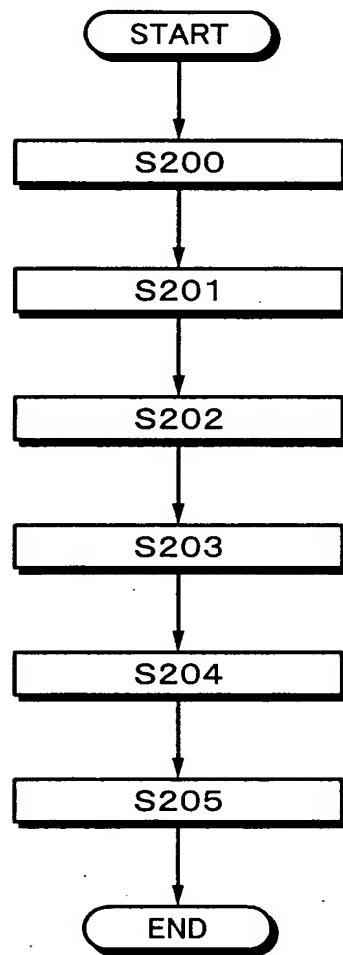
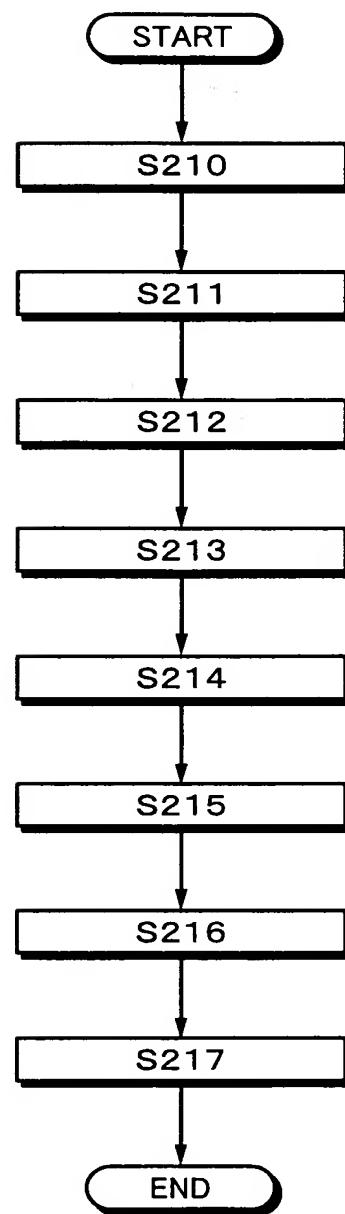


Fig. 51



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DESCRIPTION OF REFERENCE NUMERALS

- 1 DISC DRIVE DEVICE
- 2 MEDIUM DRIVE PORTION
- 3 MEMORY TRANSFER CONTROLLER
- 4 CLUSTER BUFFER MEMORY
- 5 AUXILIARY MEMORY
- 6, 8 USB INTERFACE
- 7 USB HUB
- 10 AUDIO PROCESSING PORTION
- 12 RS-LDC ENCODER
- 13 1-7 pp MODULATING PORTION
- 14 ACIRC ENCODER
- 15 EFM MODULATING PORTION
- 16 SELECTOR
- 17 MAGNETIC HEAD DRIVER
- 18 MAGNETIC HEAD
- 19 OPTICAL HEAD
- 22 1-7 DEMODULATING PORTION
- 23 RS-LDC DECODER
- 23 EFM MODULATING PORTION
- 24 ACIRC DECODER
- 26 SELECTOR
- 30 ADIP DEMODULATING PORTION
- 32, 33 ADDRESS DECODER
- 50 SWITCH

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90 DISC
100 PERSONAL COMPUTER
300 JUKE BOX APPLICATION
301 DATABASE MANAGEMENT MODULE
302 SECURITY MODULE
S100 CHECK UID.
S101 RECORD UTOC.
S102 RECORD ALERT TRACK.
S103 RECORD DDT.
S104 RECORD UNIQUE ID.
S105 RECORD FAT AND SO FORTH.
S110 CHECK UID.
S111 RECORD DDT.
S112 UNIQUE ID
S113 RECORD FAT AND SO FORTH.
S200 CONNECT PC AND PD.
S201 USER SELECTS DYNAMIC GROUP TO BE CHECKED OUT.
S202 HAS DISC BEEN LOADED INTO PD ?
S203 RECORD DISC ID AND NAME OF DYNAMIC GROUP TO DB OF PC.
S204 PERFORM CHECK-OUT OPERATION.
S205 (THEREAFTER, WHEN DYNAMIC GROUP HAS CHANGED ON PC, SET VALUE
OF CHANGE FLAG OF DB TO "1.")
S210 CONNECT PC AND PD.
S211 HAS DISC BEEN LOADED INTO PD ?
S212 HAS DISC ID OF DISC LOADED INTO PD BEEN RECORDED IN DB OF PC ?

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HAS DYNAMIC GROUP ALSO BEEN REGISTERED ?

- S213 HAS VALUE OF CHANGE FLAG OF DYNAMIC GROUP BEEN SET TO "1" ?
- S214 CHECK IN CONTENTS THAT EXIST ON ONLY PD SIDE.
- S215 CHECK OUT CONTENTS THAT EXIST ON ONLY PC SIDE.
- S216 CHANGE REPRODUCTION ORDER OF CONTENTS ON PD SIDE IN ACCORDANCE WITH REPRODUCTION ORDER OF CONTENTS ON PC SIDE.
- S217 SET VALUE OF CHANGE FLAG OF DYNAMIC GROUP TO "0."